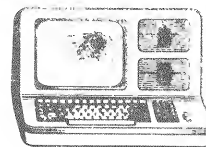


# Maxi Series Newsletter



Volume 1, Number 1

3rd Quarter 1983

## Writers

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```

1 Beginning Column      Numeric -5,0
2 End of Line Length    Numeric -5,0
3 Card Number           Numeric -5,0
4 Ending Column         Numeric -5,0
5 Field Length          Equation -5,0
6 Start Key             Equation -10,0
7 Break Key             Equation -22,0

Equation Formulae
=====
170 DEF(1)=DEF(1)-DEF(1)*SGN(DEF(1))-1:DEF(1)=DEF(1)+SGN(DEF(1))-1:DEF(1)=DEF(1)
180 DEF(2)=DEF(2)-DEF(2)*SGN(DEF(2))-1:DEF(2)=DEF(2)+SGN(DEF(2))-1:DEF(2)=DEF(2)
190 DEF(3)=DEF(3)-DEF(3)*SGN(DEF(3))-1:DEF(3)=DEF(3)+SGN(DEF(3))-1:DEF(3)=DEF(3)
200 DEF(4)=DEF(4)-DEF(4)*SGN(DEF(4))-1:DEF(4)=DEF(4)+SGN(DEF(4))-1:DEF(4)=DEF(4)
210 DEF(5)=DEF(5)-DEF(5)*SGN(DEF(5))-1:DEF(5)=DEF(5)+SGN(DEF(5))-1:DEF(5)=DEF(5)
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640 DEF(48)=DEF(48)-DEF(48)*SGN(DEF(48))-1:DEF(48)=DEF(48)+SGN(DEF(48))-1:DEF(48)=DEF(48)
650 DEF(49)=DEF(49)-DEF(49)*SGN(DEF(49))-1:DEF(49)=DEF(49)+SGN(DEF(49))-1:DEF(49)=DEF(49)
660 DEF(50)=DEF(50)-DEF(50)*SGN(DEF(50))-1:DEF(50)=DEF(50)+SGN(DEF(50))-1:DEF(50)=DEF(50)
670 DEF(51)=DEF(51)-DEF(51)*SGN(DEF(51))-1:DEF(51)=DEF(51)+SGN(DEF(51))-1:DEF(51)=DEF(51)
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730 DEF(57)=DEF(57)-DEF(57)*SGN(DEF(57))-1:DEF(57)=DEF(57)+SGN(DEF(57))-1:DEF(57)=DEF(57)
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760 DEF(60)=DEF(60)-DEF(60)*SGN(DEF(60))-1:DEF(60)=DEF(60)+SGN(DEF(60))-1:DEF(60)=DEF(60)
770 DEF(61)=DEF(61)-DEF(61)*SGN(DEF(61))-1:DEF(61)=DEF(61)+SGN(DEF(61))-1:DEF(61)=DEF(61)
780 DEF(62)=DEF(62)-DEF(62)*SGN(DEF(62))-1:DEF(62)=DEF(62)+SGN(DEF(62))-1:DEF(62)=DEF(62)
790 DEF(63)=DEF(63)-DEF(63)*SGN(DEF(63))-1:DEF(63)=DEF(63)+SGN(DEF(63))-1:DEF(63)=DEF(63)
800 DEF(64)=DEF(64)-DEF(64)*SGN(DEF(64))-1:DEF(64)=DEF(64)+SGN(DEF(64))-1:DEF(64)=DEF(64)
810 DEF(65)=DEF(65)-DEF(65)*SGN(DEF(65))-1:DEF(65)=DEF(65)+SGN(DEF(65))-1:DEF(65)=DEF(65)
820 DEF(66)=DEF(66)-DEF(66)*SGN(DEF(66))-1:DEF(66)=DEF(66)+SGN(DEF(66))-1:DEF(66)=DEF(66)
830 DEF(67)=DEF(67)-DEF(67)*SGN(DEF(67))-1:DEF(67)=DEF(67)+SGN(DEF(67))-1:DEF(67)=DEF(67)
840 DEF(68)=DEF(68)-DEF(68)*SGN(DEF(68))-1:DEF(68)=DEF(68)+SGN(DEF(68))-1:DEF(68)=DEF(68)
850 DEF(69)=DEF(69)-DEF(69)*SGN(DEF(69))-1:DEF(69)=DEF(69)+SGN(DEF(69))-1:DEF(69)=DEF(69)
860 DEF(70)=DEF(70)-DEF(70)*SGN(DEF(70))-1:DEF(70)=DEF(70)+SGN(DEF(70))-1:DEF(70)=DEF(70)
870 DEF(71)=DEF(71)-DEF(71)*SGN(DEF(71))-1:DEF(71)=DEF(71)+SGN(DEF(71))-1:DEF(71)=DEF(71)
880 DEF(72)=DEF(72)-DEF(72)*SGN(DEF(72))-1:DEF(72)=DEF(72)+SGN(DEF(72))-1:DEF(72)=DEF(72)
890 DEF(73)=DEF(73)-DEF(73)*SGN(DEF(73))-1:DEF(73)=DEF(73)+SGN(DEF(73))-1:DEF(73)=DEF(73)
900 DEF(74)=DEF(74)-DEF(74)*SGN(DEF(74))-1:DEF(74)=DEF(74)+SGN(DEF(74))-1:DEF(74)=DEF(74)
910 DEF(75)=DEF(75)-DEF(75)*SGN(DEF(75))-1:DEF(75)=DEF(75)+SGN(DEF(75))-1:DEF(75)=DEF(75)
920 DEF(76)=DEF(76)-DEF(76)*SGN(DEF(76))-1:DEF(76)=DEF(76)+SGN(DEF(76))-1:DEF(76)=DEF(76)
930 DEF(77)=DEF(77)-DEF(77)*SGN(DEF(77))-1:DEF(77)=DEF(77)+SGN(DEF(77))-1:DEF(77)=DEF(77)
940 DEF(78)=DEF(78)-DEF(78)*SGN(DEF(78))-1:DEF(78)=DEF(78)+SGN(DEF(78))-1:DEF(78)=DEF(78)
950 DEF(79)=DEF(79)-DEF(79)*SGN(DEF(79))-1:DEF(79)=DEF(79)+SGN(DEF(79))-1:DEF(79)=DEF(79)
960 DEF(80)=DEF(80)-DEF(80)*SGN(DEF(80))-1:DEF(80)=DEF(80)+SGN(DEF(80))-1:DEF(80)=DEF(80)
970 DEF(81)=DEF(81)-DEF(81)*SGN(DEF(81))-1:DEF(81)=DEF(81)+SGN(DEF(81))-1:DEF(81)=DEF(81)
980 DEF(82)=DEF(82)-DEF(82)*SGN(DEF(82))-1:DEF(82)=DEF(82)+SGN(DEF(82))-1:DEF(82)=DEF(82)
990 DEF(83)=DEF(83)-DEF(83)*SGN(DEF(83))-1:DEF(83)=DEF(83)+SGN(DEF(83))-1:DEF(83)=DEF(83)

```

This is the listing of the program that produces the above output:

```

1 ***** Version 2.0
2 ***** DBLIST ***** 13 February 1983
3 ***** Davey * Crockett *****
4 ***** Davey * Crockett *****

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98 *****
99 *****

```

## CONTENTS

|   |     |
|---|-----|
| Introduction .....                              | 1   |
| Maxi Manager II<br>Insight by Dale Kubler ..... | 2-4 |
| Enhancements .....                              | 1   |
| Common Problems .....                           | 4   |
| Current Versions .....                          | 4   |
| Patches .....                                   | 4   |

## USER PROGRAM ENHANCEMENTS

The following enhancements were written by users and they would like them to be passed on to other users for them to use.

The first is a program written by David Crockett of Greenbelt, MD. The program is for Maxi Manager and it lists out the data base configuration (i.e., # of active records, field names, # of disks used, equation fields, etc.). It can be executed from the Utilities Menu of Maxi Manager and the program will return to Maxi Manager when it is finished.

If you don't have a printer, change all the LPRINT's in the listing to PRINT's and the information will be sent to the screen. Here is what it will print out:

```

Data Base Structure Report
=====
Disk Information
=====
1 Total number of disks      Disk File Serial Numbers
2 First data disk           2041 27906 11045

Record Information
=====
119 Record Length
1378 Total number of records
466 Number of active records
912 Number of available records
0 Logically deleted records
467 Next spare record

Key Field Information
=====
1 Maximum number of key files
2 Active key file
ASC Order of sort for active key
Abbreviated Display field

Field Label      Type      Length
-----
1 Conversation/Call Alpha      37
2 Change Code      Numeric     -5,0
3 Contents of Field Alpha       40

```

Now here are 2 enhancements for Maxi CRAS.

The first is sent to us by Scott Bower, Jr. of Dallas, TX. It allows you to stop the Check Register Print Out while it is printing.

```

14 GOSUB 42:LPRINTUSINGW4$;J;F1$;F4$;F7$;F5$;F6$;LSETFA$=" ";LSETFB$=" ";LSETFM$="
";LSETFX$=" ";LSETFI$=" ";LSETF2$=" ";LSETF4$=" ";
LSETF5$=" ";LSETF6$=" ";LSETF7$=" ";LSETF9$=" ";LN=LN-1:IFLN>7THENJ=J+1:IFJ=QTH
EN14LSEJ20

```

```

90 PRINT530:"Hold Down The '@' Key To Stop
Printing":VD$=INKEY$:IFVD$="@"THENRETURN
91 CLOSE:PRINT@530:"Printing Stopped.....":RUN

```

Now remember to save the program back to your program disk by typing SAVE"MCRA5/CR"

This next enhancement is also for Maxi CRAS and it comes from L.T. Worthington of West Palm Beach, FL. It

To insert the enhancement into your program, go into TBASIC from Tdos by typing TBASIC and once in TBASIC, type LOAD"MCRA5/CR" and add or change these lines:

prints on the screen the balance of your checking account while you are entering transactions.

To install this added feature, go into TBASIC from Tdos by typing TBASIC and once in TBASIC, type LOAD"MCRA5/TE"

Change the lines in your program to match the following lines.

```

17 PRINT@89,"Transaction No. "Q" BANK BALANCE $";:PRINTUSING"####,###,###;AB(NA
):PRINT@89,"C" - Check";:PRINT@945,"B" - Bal
ance";:PRINT@940,"D" - Deposit";:PRINT@1009,"E" - End";:PRINT@927,"";:FL=1:
GOSUB54:A2$=IN$

```

Ref: Newsletter Release - MAXI MANAGER II

Since the introduction of MAXI MANAGER in October 1980, several users have requested the establishment of a newsletter to be used by the author and MAXI MANAGER users alike for purposes of sharing MAXI MANAGER related information. Well folks, here it is, the first edition of the MAXI Series newsletter. This newsletter will be mailed to all registered owners of a MAXI Series program. Keep in mind that this is your newsletter, designed to provide a forum for your questions and discoveries pertaining to MAXI Series programs. In order to fulfill this goal, we need your input. Please share your experiences with any of the MAXI Series programs by writing to:

MAXI Series Newsletter Editor  
The Business Division  
155 Sabal Palm Drive  
Longwood, Florida 32750

In this first issue, I will describe MAXI MANAGER II, a project I have been working on along with the IBM PC and CP/M versions of MAXI C.R.A.S. for the last 15 months. MAXI MANAGER II (MMS-II) contains several new features not available in its predecessor, "MAXI MANAGER." Let's begin by describing the major differences between the two programs.

1. MMS-II supports hard disks when using the DOSPLUS or LDOS operating systems. In addition, NEWDOS/80 Versions 1 and 2 are supported when used with CORVUS hard disk units.

2. MMS-II allows for 'named' files. Each MMS-II data file is assigned a 1-8 character name during initialization. No two data files may carry the same name (MMS-II will keep you honest and will prevent this from happening). As a result, more than one data base can be stored on a single disk. This feature is a necessity for hard disk users. You may switch from one data base to another via a new Master Menu function, "Select New File," by merely requesting the desired file by "name."

3. Files may be configured to hold a "user specified" number of records. The previously used line 222 of MAXI MANAGER Initialization program has been eliminated and has been replaced with a Utility Menu option that automatically allocates the required parameters for all supported Disk Operating Systems. When operating with DOSPLUS or LDOS, MMS-II will dynamically read each disk's granule allocation table (GAT) to determine the maximum amount of free space available for data storage. After calculating the maximum number of records possible, you will have an opportunity to allocate a lesser number of records to the file. This, along with "named" files will enable you to store more than one MMS-II file on a single disk.

4. MMS-II expands the total number of fields per record from 20 to 50. The maximum field length is now 60 characters rather than the 40 character maximum previously allowed. The record can still span two 10-line, 640-character "pages" for a total data record size of 800 characters (no change).

5. The MMS-II record layout is "user formatted." This means that you design the record on the video display as you wish to view it. Multiple fields can appear on the same line. Text and graphics can also be intermixed within the record wherever needed (i.e. comments, allowable input responses, etc.).

6. All "full screen" video displays are now machine-language assisted greatly improving the speed and visual aesthetics of MAXI MANAGER II.

7. Abbreviated video displays attempt to display up to 9 contiguous fields (previously 3) on a single line, space permitting.

8. A non-destructive cursor has been added to simplify and speed up the EDIT function. While data cannot be inserted or deleted in the same manner as with most word processors, single character changes become much easier.

(a) Any time the ENTER key is depressed, trailing blanks (from right to left) are stripped from the input field.

(b) When the CLEAR key is depressed, trailing characters to the right of the cursor are suppressed.

(c) The right and left arrow keys control cursor movement within an input field.

(d) [SHIFT] + [LEFT ARROW] erases the current character.

In addition, the DOS keyboard driver (if present) has been restored for all operating systems with the exception of TRSDOS 2.3, NEWDOS 2.1, and DBLDOS. This means that repeating keyboards, lower-case drivers, key debounce, screen print requests, etc. which are functions of your DOS will be honored by MAXI MANAGER II. As such, the upper/lower case switch for TDOS (the DOS that MMS-II is supplied with) is the combination [SHIFT] + [O].

9. High memory drivers of up to 950 bytes may be used, if desired, provided that they are loaded into memory above FC42H. High memory routines must be loaded before executing the MMS-II LOADER/CMD command. This allows Model I LDOS users to use Double Density as well as double-sided disk drives. Certain operating systems also require hard-disk drivers to be loaded into high memory.

10. All Multiple Key Search routines are now performed by machine language code rather than BASIC code. Accordingly, the speed of all searches has been greatly improved. Searches may be limited to records within a user specified range of record numbers. In addition, a true Masked Search function has been implemented for "equal" and "not equal" type searches. The "@" symbol is still used as the masking character. For example, if I desire a record where the third and fifth characters of a ten character field are the letter "X" and "Y" respectively, I would enter the search key as follows:

@@X@Y@@@@@

11. New "interfield logic" has been added. Rather than answering Logical 'AND' or Logical 'OR' with each Multiple Key definition, "interfield logic" definitions are deferred to the end of the Multiple Key definitions. If only one field is being searched, no "interfield logic" is requested. When

more than one field has been requested, you will be prompted to enter the "interfield logic" expression. One level of parenthesis is allowed. "A" equals AND, "O" equals OR, and "X" equals XOR.

For example, if I desire a record when the results of Key #1 or Key #2 are true, I may type "1O2" meaning Key #1 OR Key #2, or I may type the single character "O" since a logical OR is desired between all defined keys. The single character "interfield logic" expression also applies to AND and XOR requests. Now let's say that if Key #1 or Key #2 is true, we only want the record if Key #3 is also true. Translated, this becomes Key #1 OR Key #2 AND Key #3. Parenthesis play an important role here, the "interfield logic" expression would be "(1O2)A3". 12. Two new EDIT functions have been added. One is entitled Search & Replace and the other is entitled SKIP Field Maintenance. With Search & Replace, you may designate fields for automatic replacement within a record when the results of a MultiKey Search are true. User entered data as well as the contents of an existing field may be specified as the replacement data in this two pass operation. This allows data from a field possibly named "Ending Balance" to be relocated to a field possibly named "Beginning Balance" while simultaneously zeroing out a field possibly named "Monthly Payment". All calculated fields are recomputed following the replacement operations. This feature is great for updating subscription lists, new profit margin percentages, etc.

13. SKIP Field Maintenance introduces a totally new EDIT function concept. The best way to explain this is by example. Suppose you are creating a data base with 35 fields of which only 7 can be entered at the present time. Under normal conditions, you would have to depress the ENTER key 28 times to skip over the fields that could not be entered. With the introduction of SKIP Fields you may select the Edit option before you start adding your records and from the Edit Menu, select SKIP Field Maintenance. From the SKIP Field Maintenance Menu, you may define as many fields as you like to be skipped during the Add New Records function. This can be quite a time saver. A single keystroke entered from within the SKIP Field Maintenance leg of the Edit function is all that's required to remove SKIP Fields once they have been defined.

14. The screen print initialization parameters have been removed from the initial MAXI MANAGER II display screen. They are now accessed via the Utility Menu.

15. Document Files no longer contain field names. With MAXI MANAGER II, all field label names are replaced with field "numbers." The exceptions to this are the use of (\*MMSR#) for the relative disk record number, (\*MMSD#) for the actual disk record number, and (\*DATE\*) for the current date. The DOCUFILE Utility has been totally rewritten (actually the rewrite was for MAXI MANAGER Version B.0). DOCUFILE is much easier to use and supports the field "number" concept. The Print File Function (PFF) default values have also been changed. The new defaults are:

Page Length ..... 66  
Line Spacing ..... 1

|                           |    |
|---------------------------|----|
| Top Margin .....          | 0  |
| Bottom Margin .....       | 0  |
| Line Length .....         | 80 |
| Left Margin .....         | 0  |
| Right Justification ..... | No |
| Indentation .....         | No |
| Page Numbering .....      | No |

16. The MAXI MANAGER Utility Package #1 programs have been upgraded for MMS-II and are supplied as an integral part of MAXI MANAGER II. Complete versions of MAXI MANAGER Version B.0 also include these utilities. The programs involved are RECOVER2, EXTRACT2, and MERGE2.

17. With the aid of PROSOFT's FASTER program, additional speed (in the neighborhood of 20%-30%) has been attained.

18. Relative and Actual Disk Record Numbers are displayed whenever possible in the Edit or Display modes.

19. When in the Lightning Search mode, you can toggle back and forth between Lightning Search and Edit provided that you do not delete a record. After deleting a record, you will remain in the Edit function.

20. A hard copy listing of the MMS-II file definitions may now be obtained via the EXTRACT2 Menu.

21. A hard copy Audit Trail may be selected as an Initialization Parameter option. The Audit Trail may be selected for the "Add" or "Edit" functions. When selected for the "Add" function, MMS-II will print the Relative and Actual Disk Record Number of each record added. When selected for the "Edit" function, MMS-II will print the Actual Disk Record Number of the record that is being edited as well as the previous and current contents of all changed fields. If the record is deleted, the contents of the entire record will be printed.

22. The Print function has been drastically changed. You may now define searches, selected ranges, totals, subtotals, and perform Key File Maintenance from the Print function menu now entitled the "Printer Control Menu." In addition, a page break (top of form) may be specified when printing subtotals. MMS-II will also always advance to the top of form completing page footer requirements whenever a printing session is complete. It is no longer necessary to "Clear the File Area," "Load the Document File," "Compile the Document File," and then select the print function. This is now automatic. Once a Document File has been specified, it, along with any selected print ranges, multiple key search criteria, and subtotals/totals, will be retained within the data base's Master file for use during the next print session.

All Document Files must now be saved in ASCII format. MMS-II will read any ASCII file without the need for special conversion programs as is the case with MAXI MANAGER. As a result, Document Files created with the NEWSSCRIPT or LAZY WRITER word processors are now directly compatible. In order to enable this compatibility, the HEX ZERO (00H) end-of-file (EOF) mark inserted automatically by SCRIPSIT, ELECTRIC PENCIL, and newer versions of LAZY WRITER and previously used by MAXI MANAGER to determine the end of a Document File has been

eliminated. All Document Files must now end with a new line containing the dot command ".END" Spelled out that's a single period followed by the uppercase letters END followed by a carriage return.

In order to make room for the many substantial changes made to the Print function, a few of the less frequently used functions of MAXI MANAGER had to be either removed or modified. The most significant changes are as follows:

(a) Document files must be 3072 characters or less in length.

(b) The total number of Keyboard Variables has been reduced from 20 to 5.

(c) The interrupt features that allowed you to "restart printing" have been removed. Interrupt requests via the **BREAK** key are still honored however, you will now be returned to the Printer Control Menu.

(d) All Manual Form Setting options have been removed as have the view current configuration parameters function.

23. A program entitled CONVERT2 is included and is used to upgrade an existing MAXI MANAGER data base to MAXI MANAGER II formats. CONVERT2 is executed via the "Extension Program" option of the Utility Menu.

Two of the most significant changes implemented in MAXI MANAGER II are the "user defined" video display and the "named file" concepts.

Following entry of the MMS-II file name (and password), during initialization of a new file, the video screen will clear and a flashing cursor will be displayed on the first line of "page 1" of your "about to be created" data base. At this time, you should begin typing your MMS-II data screens. Cursor movement is controlled as follows:

UP ARROW - moves the cursor up to the previous line on the current page.

DOWN ARROW - moves the cursor down to the next line on the current page.

LEFT ARROW - moves the cursor left one character position. The cursor will wrap around to the last character position of the previous line on the current page when it reaches the beginning of the current line.

RIGHT ARROW - moves the cursor right one character position. The cursor will wrap around to the first character position of the next line on the current page when it reaches the end of the current line.

SHIFT + UP ARROW - moves the cursor to the first character position on the first page.

SHIFT + DOWN ARROW + Z - moves the cursor to the first character position on the second page.

ENTER - moves the cursor to the first character position of the next line on the current page.

BREAK - ends the video display screen definition phase.

The following restrictions are placed upon data base initialization:

1. Field labels **MUST** be preceded by the field number and a period. Blank characters may be inserted between the field number and the period if desired.

2. Fields **MUST** be assigned in ascending numerical order, left to right, top to bottom on the 64x20 character data window that makes up pages 1 & 2 of the MAXI MANAGER II file.

3. Field labels **MUST** end with a colon.

4. Field lengths are specified by typing a string of periods, equal in length to the total number of characters to be assigned to the field in question. Spaces may be inserted between the colon indicating the end of a field label and the start of the string of periods. To speed things up here, depress the CLEAR key; you will be prompted for the field length.

5. A field **MUST** be totally defined on a single line (64 characters per line) including the field number, field label, and field length periods. Several fields may exist on a single line however.

6. Text inserted on the screen that does not conform to the previously mentioned restrictions will be ignored and **MAY** be used for descriptive or other purposes as desired.

7. If a date or extended date field is required, you **MUST** type 8 or 10 periods respectively for the field length. A new type of date field has also been added entitled Auto Date. You will be given an opportunity to make any 8-character date field an Auto Date field. Only one Auto Date field is allowed per data base. There are two advantages associated with the Auto Date. The first is that Auto Date fields are skipped when adding a new record and are assigned the current date. The second is that when a record is edited, the Auto Date field is automatically updated with the current date to indicate the current date. This can be useful in that at the end of a day, week, month, etc., a search and print by date can be obtained showing all activity for the time period in question.

9. A shortcut method of entering the field length periods has been provided. When the cursor is properly positioned, depress the **CLEAR** key; you will be prompted to enter the field length. If you depress the **CLEAR** key a second time, you will be given an opportunity to define a special graphics character followed by the length. These graphics symbols will then become a part of the video display for the data base you are defining.

When finished designing the video screen (I suggest this be done on a sheet of paper before sitting down in front of the computer), depress the **BREAK** key. After a slight pause ranging anywhere from 10-60 seconds, a "field definition" menu will appear. Each field number is displayed, one by one, along with its field label and field length. The menu will provide a list of valid field types based upon the field length specified for each field (i.e. total number of consecutive periods on a single line).

Fields of 17 or less characters in length are candidates for the rounded numeric field type. If defined as such, via your

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